

February XX, 2016

John J. Entsminger  
General Manager  
Southern Nevada Water Authority  
P.O. Box 99956  
Las Vegas, NV 89193

Re: SNWA Las Vegas Wash Erosion Control Structures

Dear Mr. Entsminger:

I am writing to memorialize recent discussions between the Nevada Division of Environmental Protection ("NDEP") and Southern Nevada Water Authority ("SNWA") regarding funding for construction of Las Vegas Wash erosion control structures and to request that SNWA assist NDEP and the Nevada Environmental Response Trust ("NERT") in determining the feasibility of reducing perchlorate loading to the Las Vegas Wash and Lake Mead during weir construction.

The proposed Sunrise Mountain and Historic Lateral Weirs are located in an area along the Las Vegas Wash ~~downstream of where the core plume originating from the NERT (former Kerr McGee/Tronox) Site enters the Las Vegas Wash. This is an area that has elevated perchlorate concentrations in groundwater originating from the NERT (former Kerr McGee/Tronox) Site.~~ As NDEP and SNWA agreed in June 2015, technical staff from NDEP and SNWA have reviewed the potential for these weirs to mitigate perchlorate impacts from the NERT site.

NDEP and SNWA staff have not been able to come up with a specific weir design that directly and effectively benefits remediation of the NERT perchlorate groundwater contamination. NDEP also reviewed this issue with technical staff from NERT and the US Environmental Protection Agency ("EPA") and they came to same conclusion. Therefore, ~~it does not appear that NERT funds can not be used for actual weir construction, since the court agreements designating use of NERT funds require that they be used for investigation and cleanup of legacy pollution that came from the NERT site.~~

However, dewatering during construction of the Sunrise Mountain and Historic Lateral weirs has the potential to add up to 3 tons of perchlorate from contaminated groundwater directly to the Las Vegas Wash. ~~It is an eligible use of NERT. It is the intent of NDEP to order the NERT to funds the to the remove treatment of perchlorate from this groundwater prior to discharge, provided the work is conducted in accordance with a plan and budget approved by NDEP in consultation with EPA. Concentrations in the Las Vegas Wash are currently between 30 and 40 ppb, already above the Nevada provisional Action Level of 18 ppb. Additional perchlorate load of up to 50 lbs/day during weir construction would further exceed Nevada's protective water quality concentration and contribute additional perchlorate mass to Lake Mead. Also, in February 2015 California lowered its public health goal for perchlorate to 1 ppb, which could~~

~~trigger future lowering of its 6 ppb maximum contaminant level (MCL), increasing the importance of preventing additional perchlorate from entering the Colorado River System. In the interest of human health and water resource protection, NDEP has determined that all feasible efforts should be made to prevent or reduce further exceedances of protective water quality concentrations.~~

NDEP plans to direct NERT to prepare a ~~report due by April 30, 2016~~ that evaluates the cost, feasibility, schedule and permitting requirements for treating groundwater extracted during weir construction dewatering. We anticipate that NERT would ~~perform and fund the construction and operation of this the the treatment system system through completion of the dewatering process.~~ NERT's ~~role funding~~ is anticipated to include payment for construction of conveyance piping from dewatering locations to the treatment facility, as well as ~~facilitating the design, construction, operation, maintenance and reporting associated with the treatment.~~ NDEP understands that SNWA has plans to commence weir construction by 2017. This should provide enough time for NDEP, NERT and EPA to come to a ~~determination on the necessity of the and~~ feasibility of this groundwater treatment.

Treatment and discharge of the extracted groundwater into the Las Vegas Wash would require a NPDES permit subject to concentration limits on perchlorate along with other standard conditions consistent with Las Vegas Wash designated beneficial uses. At this time, NDEP and NERT anticipate that NERT would apply for and maintain compliance with the NPDES permit for discharge of the extracted groundwater.

NDEP requests SNWA's assistance in coordinating with NERT on the evaluation and providing the following information:

- ~~• NERT and NDEP staff to list specific information requests...~~
- Anticipated schedule for bidding and construction of weirs;
- Access to groundwater monitoring wells along the Las Vegas Wash to characterize groundwater quality at the weir construction area;
- Access to historical construction records regarding the dewatering methods employed, groundwater extraction rates, and measured perchlorate concentrations in groundwater;
- Development of a conceptual dewatering plan to identify the approximate dewatering rate during construction and the approximate schedule at both weir locations;
- Development of a conceptual design for conveying water from dewatering operations to the treatment system; and
- Identifying property ownership along the influent pipeline corridor to the treatment system.

NDEP also requests that SNWA include conveyance of dewatering water to a designated NERT treatment location as a segregated set of costs in the construction bid packages for the Sunrise Mountain and Historic Lateral weirs.

Mr. John Entsminger  
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[I think it beneficial to add language here along the lines of : NDEP would appreciate SNWA's concurrence on this matter prior to February 23, 2016 so it can be discussed at the NERT Annual Stakeholder Meeting.]

Please contact me with any questions at 775-687-9301 or have your staff contact Mr. JD Dotchin at 702-486-2850 extension 235.

Sincerely,

Dave Emme  
Administrator

EC:

Leo Drozdoff, DCNR  
Greg Lovato, NDEP  
Jennifer Carr, NDEP  
Bruce Holmgren, NDEP  
Cliff Lawson, NDEP  
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